IN THE CLAIMS

Please cancel claims 1-8, 10-12, 24-25, 50-53, 56-58, and 71-80 without prejudice.

Please amend claims 9, 13, and 54 as follows below.

Please add new claims 81-96 that follow below.

MARKED UP CLAIMS

1-8. (Cancelled)

9. (Amended Once) A ~~The~~ fiber optic module ~~of claim 1 wherein~~ comprising:

a pull-actuator to disengage and withdraw the fiber optic module from a cage assembly, the pull-actuator includes

a pull-tab,

a shaft coupled to the pull tab at a first end, and

an opening at a second end of the shaft to engage a first end of a pivot arm;

and

one or more electro-optic transducers to convert optical signals into electrical signals or electrical signals into optical signals.

10-12. (Cancelled)

13. (Amended Once) A ~~The~~ fiber optic module ~~of claim 1 further~~ comprising:

a pull-actuator to disengage and withdraw the fiber optic module from a cage assembly;

a pivot-arm actuator, pivotally coupled to the fiber optic module, to release the fiber optic module from the cage assembly when the pull-actuator is pulled; and

one or more electro-optic transducers to convert optical signals into electrical signals or electrical signals into optical signals.

14. (Original) The fiber optic module of claim 13 wherein the pivot-arm actuator further includes,

a pivoting pin to rotationally couple the pivot-arm actuator to the fiber optic module.

15. (Original) The fiber optic module of claim 13 wherein the pivot-arm actuator includes

a first engaging end to engage to the cage assembly,

a second engaging end to engage to the pull-actuator, and

a shaft coupling to the first and second engaging ends.

16. (Original) The fiber optic module of claim 15 wherein

the first engaging end includes a keeper to engage the fiber optic module to the cage assembly.

17. (Original) The fiber optic module of claim 15 wherein the first engaging end includes a latch to engage the fiber optic module to the cage assembly.

18. (Original) The fiber optic module of claim 15 wherein the second engaging end includes a keeper to engage the pivot-arm actuator to the pull-actuator.

19. (Original) The fiber optic module of claim 15 wherein the second engaging end includes a latch to engage the pivot-arm actuator to the pull-actuator.

20. (Original) The fiber optic module of claim 15 wherein the second engaging end includes a ramped sliding surface to slide and cause the pivot-arm actuator to rotate when the pull-actuator is pulled.

21. (Original) The fiber optic module of claim 13 further comprising:

a spring to cause the pivot-arm actuator to return to its initial position when the pulling force on the pull-actuator is removed.

22. (Original) The fiber optic module of claim 21 wherein

the spring is a leaf spring and part of the pivot-arm actuator.

23. (Original) The fiber optic module of claim 21 wherein the spring causes the pull-actuator to return to its initial position when the pulling force on the pull-actuator is removed.

24-53. (Cancelled)

54. (Amended Once) A ~~The~~ fiber optic module ~~of claim 50 further~~ comprising:

means for converting optical signals into electrical signals or electrical signals into optical signals;

means for disengaging the fiber optic module from a cage assembly by pulling a pull-actuator; and

means for pivotally disengaging the fiber optic module from the ~~a~~ cage assembly when the pull-actuator is pulled.

55. (Original) The fiber optic module of claim 54 further comprising:

means for coupling the pivotally disengaging means to the fiber optic module.

56-58. (Cancelled)

59. (Original) A fiber optic module comprising:

a nose receptacle including

a fiber optic cable receptacle to receive one or more fiber optic cable plugs,

a pull-actuator to release the fiber optic module from a cage assembly using a pull action;

a pivot-arm actuator coupled to the pull-actuator, the pivot-arm actuator to pivot and release a keeper from a latch to release the fiber optic module in response to a pull action on the pull-actuator; and

a printed circuit board including one or more electro-optic transducers to convert optical signals into electrical signals or electrical signals into optical signals.

60. (Original) The fiber optic module of claim 59 wherein,

the fiber optic module is a small form pluggable (SFP) fiber optic module and the cage assembly is a small form pluggable (SFP) cage assembly.

61. (Original) The fiber optic module of claim 59 further comprising:

a housing to couple to the nose receptacle and cover the printed circuit board.

62. (Original) The fiber optic module of claim 61 wherein,

the housing is shielded to protect the printed circuit board from electromagnetic interference.

63. (Original) The fiber optic module of claim 59 wherein,

the pull-actuator includes one or more grooves to slideably engage the nose receptacle.

64. (Original) The fiber optic module of claim 59 wherein,

the pull-actuator slides outward to release the fiber optic module from the cage assembly.

65. (Original) The fiber optic module of claim 59 wherein,

the pivot-arm-actuator includes

a pivot pin rotationally coupled to the nose receptacle at first and second ends to allow the pivot-arm actuator to pivot.

66. (Original) The fiber optic module of claim 59 wherein

the nose receptacle further includes

a spring coupled to the pivot-arm-actuator at a first end and the nose receptacle at a second end, the spring to exert a force on the pivot-arm-actuator to exert a return force on the pull-actuator.

67. (Original) The fiber optic module of claim 59 wherein,

the pull-actuator includes

an orientation indicator to indicate the fiber optic module which the pull-actuator releases.

68. (Original) The fiber optic module of claim 59 wherein,

the pull-actuator includes

a pull-tab,

a shaft coupled to the pull-tab at a first end, and

a catch at a second end of the shaft.

69. (Original) The fiber optic module of claim 59 wherein,

the pull-actuator is located at a bottom side of the fiber optic module.

70. (Original) The fiber optic module of claim 59 wherein,

the nose receptacle further includes

a grip to pull out on the fiber optic module.

71-80. (Cancelled)

81. (New) The fiber optic module of claim 9 wherein

the fiber optic module is a small form pluggable (SFP) fiber optic module and the cage assembly is a small form pluggable (SFP) cage assembly.

82. (New) The fiber optic module of claim 9 wherein the pull-actuator is activated to disengage and withdraw the fiber optic module by a single backward pull action.

83. (New) The fiber optic module of claim 9 wherein the pull-actuator further includes

one or more grooves to slideably engage the fiber optic module.

84. (New) The fiber optic module of claim 9 wherein the fiber optic module includes one or more grooves to slideably engage the pull-actuator.

85. (New) The fiber optic module of claim 9 wherein the pull-actuator slides to disengage the fiber optic module from the cage assembly.

86. (New) The fiber optic module of claim 9 wherein the pull-actuator further includes,

one or more end-stops to withdraw the fiber optic module as the pull-actuator is pulled.

87. (New) The fiber optic module of claim 9 wherein

the pull-actuator further includes

one or more end-stops to prevent the pull-actuator from becoming disengaged from the fiber optic module as it is pulled.

88. (New) The fiber optic module of claim 9 wherein the pull-actuator further includes

an orientation indicator to indicate the fiber optic module which the pull-actuator releases.

89. (New) The fiber optic module of claim 9 wherein the pull-actuator is formed of metal.

90. (New) The fiber optic module of claim 9 wherein the pull-actuator is formed of a plastic.

91. (New) The fiber optic module of claim 9 wherein the pull-actuator permits arranging multiple fiber optic modules in a belly-to-belly configuration without obstructing adjacent pull-actuators.

92. (New) The fiber optic module of claim 91 wherein with the belly-to-belly configuration, two pull-actuators are located in proximity to each other along a common surface between two fiber optic modules.

93. (New) The fiber optic module of claim 54 further comprising:

means for slideably engaging the means for disengaging the fiber optic module.

94. (New) The fiber optic module of claim 54 wherein the means for disengaging also provides a means for withdrawing.

95. (New) The fiber optic module of claim 54 further comprising:

means for withdrawing the fiber optic module.

96. (New) The fiber optic module of claim 54 further comprising:

means for indicating the fiber optic module which the means for disengaging releases.